

## Approved Materials - Sanitary

	Manufacture Size	- Model No Comments
<b>3.01 PIPE AND FITTINGS</b>		
<b>A1</b>	<b>PVC Plastic Pipe SDR 26</b>	
	<b>PVC- SDR 26</b>	
	North American (Bristol)	- Gaskets
	6" Min.Laterals, 8"Min.Main	North American aquired Bristol in 2004
	National Pipe Evergreen	- Gaskets
	6" Min.Laterals, 8"Min.Main	14' lengths
<b>A2</b>	<b>PVC Plastic Pipe and Gasket Fittings</b>	
	<b>PVC Fittings-SDR 26</b>	
	Vassallo	- N/A
	6" - 24" Dia.	
	Harco Fittings	- N/A
	6" - 15" Dia.	
	GPK Products	- N/A
	6" - 30" Dia.	
	Plastic Trends Inc.	- N/A
	6" - 18" Dia.	
	Multi Fittings	- N/A
	6" - 18" Dia.	
	<b>PVC Lubricant</b>	
	Ease - On Pipe Lube	- N/A
<b>A3</b>	<b>Reinforced Concrete Pipe and Fittings class IV or V</b>	
	<b>Concrete Pipe and Fittings</b>	
	Hanson	- RCP
	12" TO 144" Dia.	
	Rinker	- RCP
	12" TO 96" Dia.	
<b>A5</b>	<b>Vitrified Clay Pipe and Fittings</b>	

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### 3.01 **PIPE AND FITTINGS**

#### **A5   Vitrified Clay Pipe and Fittings**

##### ***Vitrified Clay Pipe***

Can-Clay	- ES 700
4" - 48"	

Logan	- ES 700
4" - 24"	

##### ***Vitrified Clay Pipe Lubricant***

Logan Lube	- N/A
N/A	Comes with pipe

#### **A6   Ductile Iron Pipe and Fittings C110**

##### ***Field Loc Gaskets***

U.S.Pipe	- Field Lok 350
4" to 24" - 350 psi	30" to 36" Rated at 250 psi

American	- Fast-Grip
4" to 18" - 350 psi	20" to 24" Rated at 250 psi

##### ***Mechanical Joint Restraints***

Ford	- Uni-Flange -1400 series
3" to 36"	above 16" rated at 250 psi
Ebba Iron Inc.	- Megaflange 1100 series
3" to 48"	above 16" rated at 250 psi,black

##### ***Restrained Mechanical Joint***

Clow	- Tyton,Fastite
3" to 36" - 350 psi	30" to 36" fastite
American	- CL 53
4" to 12" - 350 psi	14" to 48" Rated at 250 psi
U.S. Pipe	- CL 53
4" to 12"	18' Lengths

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### 3.01 PIPE AND FITTINGS

#### A6 Ductile Iron Pipe and Fittings C110

##### ***Restrained Mechanical Joint***

Griffin Pipe	- CL 53
3" to 24" 350 psi	18' Lengths

##### ***Restrained, Push-On Joints***

American	- Flex-Ring
4" to 48" dia.	CL-52 Min. Boltless

U.S. Pipe	- TR Flex
4" to 36" dia.	CL-52 Min. Boltless

Griffin Pipe	- Snap Lok
4" to 48" dia.	CL-52 Min. Boltless

Clow	- Super-Lock
6" to 30" dia.	CL-52 Min. Boltless

#### B Pipe Couplings

##### ***Pipe Couplings***

Mission	- ARC MRO series
4" TO 27" Dia.	Mainline, Integral only 3 Band SS

##### ***Sewer Sattel Stainless***

Inserta Fittings Co.	- Gasketed Bell
4", 6", 8", 10", 12", 15"	SDR 26

#### D PVC Residential Force Main

##### ***HDPE DR11***

Charter Plastics	- DR 11
3/4" TO 24"	PE 3408/3608

##### ***PVC Force Main***

Harvel	- Sch 120
1/2" TO 8" IPS	

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### 3.01 *PIPE AND FITTINGS*

#### D PVC Residential Force Main

##### *PVC Force Main*

Harvel	- Sch. 80
1/8" TO 24" IPS	Approved w/ 6" concrete encasement

### 3.02 *POLYETHELENE ENCASEMENT*

#### Polywrap for D.I.P.

##### *Polyethylene Encasement*

U.S Pipe	- N/A
Min. 8 mil thick	

### 3.03 *PIPE INSULATION*

#### Pipe Insulation

##### *Foamglass Pipe Insulation*

Pittsburgh Corning Corp.	- Foamglas Pipe Insulation
1" thickness min.	

### 3.04 *PIPE MARKERS*

#### Pipeline Markers

##### *Carsonite Utility Markers*

Ametek	- Carsonite Utility Markers
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### 3.05 *STEEL ENCASEMENT PIPE*

#### Steel Encasement Pipe

##### *Casing Chocks*

Cascade Waterworld co.	- N/A
As Needed	

Advance Products & Sys.	- SS1
As Needed	

Power Seal Pipeline co.	- 4810
As Needed	

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### 3.05 **STEEL ENCASEMENT PIPE**

#### Steel Encasement Pipe

##### **Steel Encasement Pipe**

Fill with sand or Grout	- 3/8" Thick for new 1/2" Thick for used
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### 3.06 **MANHOLES**

#### Hydraulic Cement and Sealant

##### **Hydraulic Cement-Chem Seal**

Spray-Cure Co.	- Chem Seal
N/A	

##### **Hydraulic Cement-Seawall**

Seawall Products, Inc.	- Seawall Products Inc.
N/A	

##### **Hydraulic Cement-Water Plug**

Thoro System Products	- Water Plug
N/A	

##### **Thorseal Sealant**

Thoro System Products	- Sealant
N/A	Any Color but Grey

### **A Manholes**

#### **Clean Out Manholes**

Lindsey,Mack,McGill	- Clean out Manhole
Min. 48" dia	

Wavin	- Non traffic bearing
19" dia, 8' deep max	private residential only every 300'

#### **Doghouse Manhole**

Lindsey,Mack,McGill	- Precast Doghouse
Min. 48" dia	

#### **Sanitary Manholes**

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<b>3.06 MANHOLES</b>		
<b>A</b>	<b>Manholes</b>	
	<b><i>Sanitary Manholes</i></b>	
	Lindsey, Mack, McGill Min. 48" dia	- Type "A" or " B" Concentric
	<b><i>Shallow Precast Manhole</i></b>	
	Lindsey, Mack, McGill 4' dia. 5' dia. 27"-42"	- Shallow Precast.
<b>B</b>	<b>Bases</b>	
	<b><i>Flexible Joint</i></b>	
	Interpace As Needed	-
	<b><i>Flexible Joint- A-LOK</i></b>	
	A-Lok Products Corp. As Needed	- A-Lok
	<b><i>Flexible Joint-Kor-N-Seal</i></b>	
	National Pollution Control 1" to 56"	- Kor-N-Seal
	<b><i>Flexible Joint-Press Wedge II</i></b>	
	Press Seal Gasket Corp. As Needed	- Presswedge 11
	<b><i>Manhole Base</i></b>	
	Lindsey, Mack McGill 48" manhole	- integral with base riser
<b>C</b>	<b>Preformed Gasket, Grade Rings</b>	
	<b><i>Precast Concrete Grade Ring</i></b>	
	Lindsey, Mack, McGill 3" min, 12" max.	- N/A
	<b><i>Preformed Gasket</i></b>	

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### 3.06 MANHOLES

#### C Preformed Gasket, Grade Rings

##### *Preformed Gasket*

Henry Co.	- N/A
As Needed	

Conseal	- N/A
As Needed	

Hamilton Kent MFG. Corp	- N/A
As Needed	

#### D Chimney Seals

##### *Chimney Seal*

Cretex Speciality Products	- Stainless Bands
Fit to size, 8" 10" wide	Need Installation Tool

N.P.C. Flex Rib	- Stainless Bands
Fit to size	Need Installation Tool

#### E Manhole Steps

##### *Steps*

American	- ML-10
Project 3.5" in 24" Section	

Neenah	- R-1989-E Cast Iron
Project 3.5" in 24" Section	

M.A. Industries	- PS1-PF / PS1-B
Project 3.5" in 24" Section	

### 3.07 FRAMES AND COVERS (MANHOLE)

#### Frames And Covers

##### *Epoxy for Anchors*

PC Epoxy	- 100% 2 Part
N/A	Min.Strength 5000psi

##### *Frames And Covers*

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### 3.07 **FRAMES AND COVERS (MANHOLE)**

#### Frames And Covers

##### *Frames And Covers*

East Jordan Iron Works	- 1710Z, 1710, 2990
26" dia.	

Neenah	- R-1782
24" dia.	

### 3.08 **DROP CONNECTIONS**

#### Ductile Iron Outside Drop

##### *Drop Connections*

Class 52 dip	-
not less than 6" dia.	see fig.3.81 in rules and regs

### 3.10 **SERVICE CONNECTION**

#### Grinder Pumps Residential and Commercial

##### *Grinder Pumps*

Barnes	- SGV 2022I
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Liberty Pumps	-
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### 3.11 **AIR RELEASE MANHOLE**

#### For Force Mains

##### *Air Release Valve Manhole*

Lindsey, Mack ,McGill	- blind flange with 2" tap
48" dia.	combination air release and valve

### 3.12 **WASTEWATER PUMPING STATIONS**

#### D3 Pumps

##### *Pumps*

Yeomens	- series 9100
as needed	Submersible.Integral Pump/Motor unit



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### 3.12 WASTEWATER PUMPING STATIONS

#### D3 Pumps

##### *Pumps*

ABS	-
as needed	Submersible.Integral Pump/Motor unit
Flygt Corporation	-
as needed	Recommended for new
Myers	-
as needed	Submersible.Integral Pump/Motor unit

#### D5 Floor Door Aluminum

##### *Floor Door*

Halliday Products	- Flush Type
Flygt	- Flush Type
Bilco Company	- Flush Type

#### E6 Check Valves

##### *Ball Check Valves*

Chemtrol	- pvc
Mueller	- brass

##### *Check Valves*

M&H Valve Co.	- Style 159
G.A. Industries	- Figure 220

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<b>3.12 WASTEWATER PUMPING STATIONS</b>		
<b>E6</b>	<b>Check Valves</b>	
	<b><i>Check Valves</i></b>	
	Catalog No. A-2600	- Mueller Co.
<b>E8</b>	<b>Coupling</b>	
	<b><i>Coupling</i></b>	
	Smith-Blair, Inc	- 227,228, 2" TO 14"
	Dresser Coupling	- 38 1/2" TO 6"
<b>F2</b>	<b>Float Switches</b>	
	<b><i>Float Switches</i></b>	
	Flygt Corporation	-
	as needed	
	Roto-Float	-
	as needed	
	Barnes	-
	as needed	
<b>I</b>	<b>Geotextile Fabric for Maintenance Road</b>	
	<b><i>Geotextile Fabric</i></b>	
	Tencate Mirafi	- 180N
	As Needed	Replaces Exxon GTF 150
<b>J1</b>	<b>RTU</b>	
	<b><i>RTU (scada)</i></b>	
	Control Microsystem	-
<b>J2</b>	<b>System Integrator</b>	
	<b><i>System Integrator</i></b>	

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### 3.12 WASTEWATER PUMPING STATIONS

#### J2 System Integrator

##### *System Integrator*

Hutton Engineering	-
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J.Wolfram & Associates	-
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### 3.19 BEDDING AND BACKFILL

#### Granular Material, LSM

##### *304 Crushed Limestone*

Osborne,Sidley,Demilta	- 5% pass the 200 sieve max 2" size stones
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##### *46 or 57 Limestone*

Osborne,Sidley,Demilta	- Under Structures
N/A	

##### *Control Density Fill*

Osborne,Sidley,Cashen	- ODOT Item 613 Type 1
N/A	

##### *Sand*

Osborne,Sidley,Demilta	- ODOT Item 703.06 4" below 12" above
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### 3.20 CONNECTION TO STRUCTURES AND PIPES

#### Non Shrink Grout

##### *Grout-Five Star*

Five Star Products, Inc.	- N/A
N/A	

##### *Grout-Sealtight 588*

W.R. Meadows, Inc.	- Sealtight 588
N/A	

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### 3.20 CONNECTION TO STRUCTURES AND PIPES

#### Non Shrink Grout

##### *Grout-Set*

Master Builders	- N/A
N/A	

##### *Structure to pipe seal*

Linkseal	- S-316
as needed	Type as needed

### 3.24 TESTING FOR DEFLECTION

#### Deflection Probe ( Must be Cage Wire Style)

##### *Deflection Probe*

Cherne	- Cage Style
95% of inside dia.	Use 30 days after backfill
Burke Concrete Co.	- Cage Style
95% of inside dia.	Use 30 days after backfill
Wortco, Inc	- Cage Style
95% of inside dia.	Use 30 days after backfill